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(54) Title: MEMBRANE-BOUND DESATURASES

(57) Abstract

This invention relates to an isolated nucleic acid fragment encoding a delta-6 desaturase or sphingolipid desaturase. The invention also relates to the construction of a chimeric gene encoding all or a portion of the delta-6 desaturase or sphingolipid desaturase, in sense or antisense orientation, wherein expression of the chimeric gene results in production of altered levels of the delta-6 desaturase or sphingolipid desaturase in a transformed host cell.

Ditterbush [31M_2] soybesn [81M_8] borage_[91_2082403] corn [81M_4] wheat [31M_10] wheat [41M_104056] soybesn [81M_6] sunflower_[91_1040729]

bitterbush [SIN-2] soybasn [SIN-8] borage [q1-2062403] corn [SIN-4] wheat [SIN-10] whest [q1-4104056] soybasn [SIN-6] sunflower [q1-1040729]

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acybean_[SIN_0]
borage_[o]_2002(03)
con_[SIN_1]
con_[SIN_1]
beat_[o]_10006]
soybean_[SIN_0]
bitterbush_[SIN_0]
bitterbush_[SIN_0]
bitterbush_[SIN_0]
borage_[o]_2002(03)
con_[SIN_0]
beat_[o]_1006(1)
wheat_[o]_10006(1)
suntiows__[o]_10005(1)
suntiows__[o]_1000729|

bitterbush [SIM_2] soybean [SIM_8] borase [s].2062403] corn [SIM_4] wheat [SIM_10] wheat [SIM_10] soybean [SIM_6] sunflower [sI_1040729]

butterbush, [SIN 2] soybean [SIN 8] soybean [SIN 8] borage [G1,2662403] corm [SIN 4] wheat [SIN 10] wheat [SIN 10] soybean [SIN 2] soybean [SIN 2] butterbush, [SIN 2] borage [G1,266203] wheat [SIN 10] wheat [SIN 10] wheat [G1,100256] soybean [G1,100256]

bitterbush [SIM_2] soybean [SIM_0] borage [61_2062403] corn_[SIM_0] wheat [SIM_10] wheat [SIM_10] soybean [SIM_6] sunflower [61_1040729]

TKEHPGGELPLLSTAGODYTDAFIAYHPGTAMOYLDAFFTGYYVQOYSVBENSKOYRRLY
VKEHRGGOVPI SHLAGOOYTDAFIAYHPGTAMSHLEKFFTGY HLSDFRYSEYSKOYRKLA
VKEHRGGOVPI SHLAGOOYTDAFIAYHPAGTAMSHLEKFFTGYTHAFYSEYSKOYRKLA
VKENNGGEFFLEHAGOOYTDAFYAHRA TSHRAHBERFTGYTHAFYSYSYSYBYRINLI
LRHHNGGEVPLITLAGOOXTDAFAAYHPPSYPLLBEFTYG-THAFTAYHPAAAOPRAL
LRHHNGGEVPLITLAGOOXTDAFAAYHPPSYPLLBEFTYG-THAFTAYHPAAAOPRAL
AKENPGGDAPLINLAGOOYTDAFIAFHFGTAMKLUGHTYG-THAFTYFAAAOPRAL
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SEFRINGLIKT FORGUYCS I FIVAVLEALSVIGULYCKSTWANICZOLLMONIALOSOW
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